



# HH1307A HAND-HELD DF ANTENNA

- 2 - 520 MHz frequency coverage
- Ruggedized, compact, lightweight design
- Self-contained (requires only a receiver)
- Versatile
- Simple-to-use
- Uses standard 9-volt battery
- One year warranty on parts and labor

## A Compact Antenna for Homing Operations

The HH1307 Hand-held Direction Finding (DF) Antenna is a wide frequency coverage, multiple feed disk, radio direction finding antenna designed for homing applications. This self-contained unit requires only a radio receiver with an AM demodulation capability; no external DF processor is required.

A single small carrying case will easily accommodate this compact folding antenna along with the receiver. The unit's field-proven, ruggedized design ensures reliable, accurate operation, even in harsh environments. The simple-to-use HH1307 DF antenna connects to the receiver with a single coaxial cable.

The antenna is continuously in monitor mode to allow the user to scan and listen for signals of interest.

When an interesting signal is found, the user pulls the trigger and sweeps the antenna left and right while watching the left/right indicator lights on the back of the antenna. The user turns in the direction indicated by the lights. When both lights are extinguished, the antenna is pointed toward the target. The receiver provided is specially equipped to send its AM demodulation output up the coax to the HH1307 while allowing simultaneous monitoring in any mode. Modification kits are available for other receivers. An optional compass display is also available.

A single 9-volt alkaline battery will last approximately 30 days in the monitor mode, and 6 to 8 hours in the DF mode.

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## SPECIFICATIONS

Frequency Range:	2 - 520 MHz
Azimuthal Coverage:	360°
Antenna:	Multiple-feed disk array
Electrical:	Operating Voltage: 9-volt alkaline battery Battery Life: 30 days in monitor mode, 6-8 hours in DF mode. Power Consumption: (current) DF Mode: 45 mA (LEDs off), 55 mA (LEDs on) Monitor Mode: 40 $\mu$ A Compass Mode: 7 mA (on), 400 $\mu$ A (standby)
Typical DF Sensitivity:	2 - 520 MHz: 2 MHz: 2500 $\mu$ V/M 5 MHz: 360 $\mu$ V/M 10 MHz: 130 $\mu$ V/M 80 - 520 MHz: 25 $\mu$ V/M (6 kHz IF BW)
Signal Capture Time:	200 msec, minimum
Output Impedence:	50 Ohms, nominal
Polarization:	Vertical
Compatible Receivers:	Yupiteru MVT-7100, Modified, 0.1 - 1650 MHz AOR AR-3000A, Modified, 0.1 - 2000 MHz AOR AR-8200, Modified, 0.53 - 2040 MHz
Mechanical:	Height: 3.75" (9.6 cm) Diameter: 9" (23.1 cm) Handle: Add 4" (10.3 cm) to height Weight: 3.1 lbs (1.15 kg) Color: Black
Environmental:	Operating: -40°C to +60°C Storage: -40°C to +70°C Humidity: 95% RH per MIL-STD-810 (507.2) Shock: Per MIL-STD-810C Procedure VI Vibration: Random per MIL-STD-810 (514.3)

## Ordering Information

Model No.	Part No.	Description
HH1307A	0252448-1	HF/VHF Hand-held DF Antenna, 2 - 520 MHz (receiver not included). Color: Black

Specifications subject to change without notice

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